

Write your name, student number, study program and the year when you started your studies.

1. Define the following concepts in short. (4p)

- a) Parser
- b) Meta language
- c) Attribute
- d) Namespace

2. Define briefly an XML tree (node types and connections between tree and a XML document). (6p)

3. Define well formed XML document and valid XML document. What is the difference between these two? Is well formed XML document always valid? How about vice versa? (3p)

4. Give four examples about XML based description languages and explain briefly what they are for. (4p)

5. Compare DOM and SAX API's (application programming interfaces). How do the DOM and the SAX work? (3p)

6. Essay: Ponder the future of XML based description languages from the viewpoint of linked data, machine understandability and the Semantic Web. (6p)